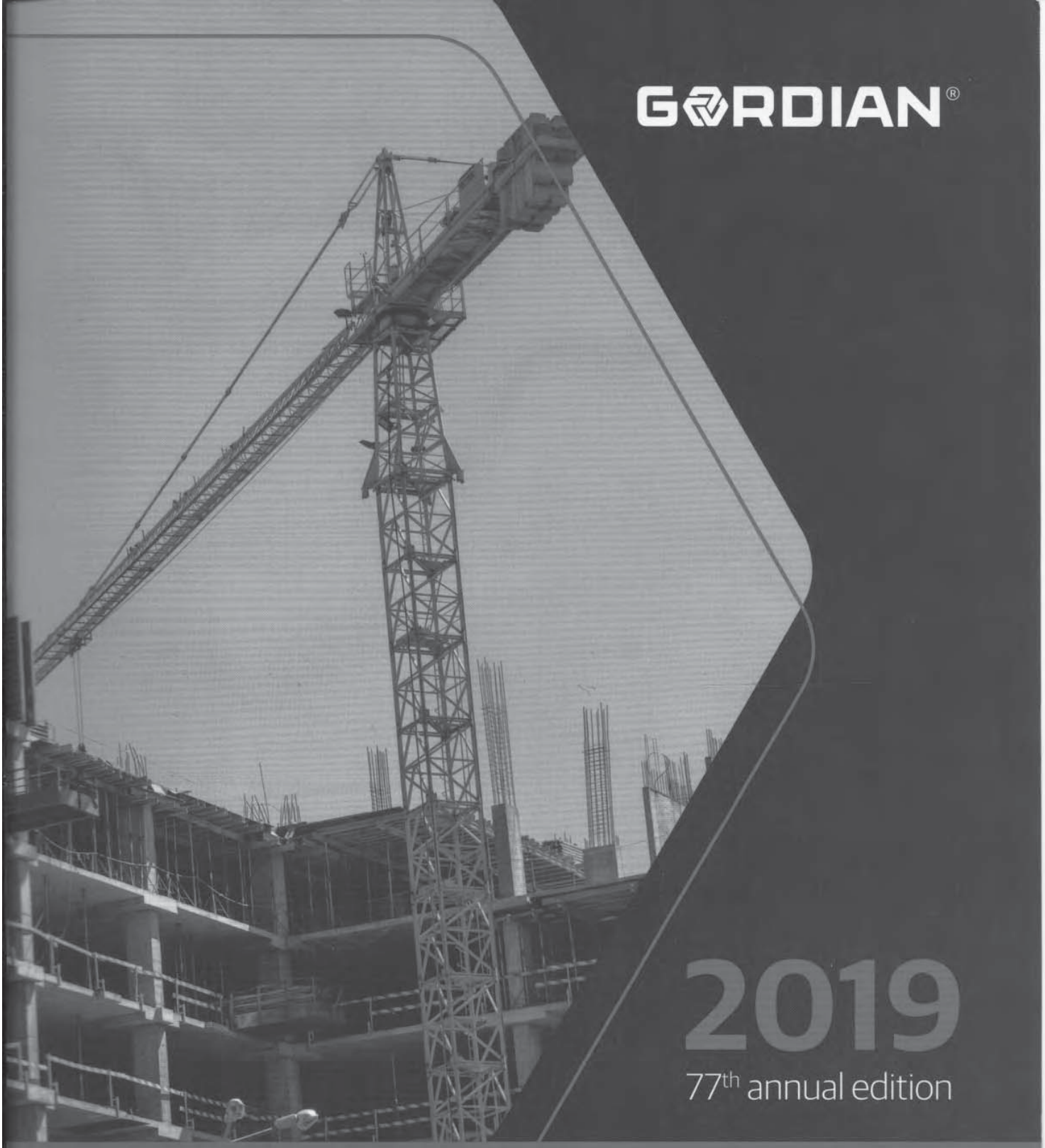

GORDIAN®

2019

77th annual edition

Building Construction Costs
with RSMeans data

Division 32

Exterior Improvements

Estimating Tips

32 01 00 Operations and Maintenance of Exterior Improvements

- Recycling of asphalt pavement is becoming very popular and is an alternative to removal and replacement. It can be a good value engineering proposal if removed pavement can be recycled, either at the project site or at another site that is reasonably close to the project site. Sections on repair of flexible and rigid pavement are included.

32 10 00 Bases, Ballasts, and Paving

- When estimating paving, keep in mind the project schedule. Also note that prices for asphalt and concrete are generally higher in the cold seasons. Lines for pavement markings, including tactile warning systems and fence lines, are included.

32 90 00 Planting

- The timing of planting and guarantee specifications often dictate the costs for establishing tree and shrub growth and a stand of grass or ground cover. Establish the work performance schedule to coincide with the local planting season. Maintenance and growth guarantees can add 20–100% to the total landscaping cost and can be contractually cumbersome. The cost to replace trees and shrubs can be as high as 5% of the total cost, depending on the planting zone, soil conditions, and time of year.

Reference Numbers

Reference numbers are shown at the beginning of some major classifications. These numbers refer to related items in the Reference Section. The reference information may be an estimating procedure, an alternate pricing method, or technical information.

Note: Not all subdivisions listed here necessarily appear. ■

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32 01 Operation and Maintenance of Exterior Improvements

32 01 13 – Flexible Paving Surface Treatment

	32 01 13.61 Slurry Seal (Latex Modified)	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0010	**SLURRY SEAL (LATEX MODIFIED)**									
3780	Rubberized asphalt (latex) seal	B-45	5000	.003	S.Y.	1.26	.16	.16	1.58	1.82
	32 01 13.64 Sand Seal									
0010	**SAND SEAL**									
2080	Sand sealing, sharp sand, asphalt emulsion, small area	B-91	10000	.006	S.Y.	1.48	.31	.22	2.01	2.34
2120	Roadway or large area	"	18000	.004	"	1.27	.17	.12	1.56	1.80
	32 01 13.66 Fog Seal									
0010	**FOG SEAL**									
0012	Sealcoating, 2 coat coal tar pitch emulsion over 10,000 S.Y.	B-45	5000	.003	S.Y.	.85	.16	.16	1.17	1.37
0030	1,000 to 10,000 S.Y.	"	3000	.005		.85	.27	.27	1.39	1.65
0100	Under 1,000 S.Y.	B-1	1050	.023		.85	.95		1.80	2.38
0300	Petroleum resistant, over 10,000 S.Y.	B-45	5000	.003		1.42	.16	.16	1.74	1.99
0320	1,000 to 10,000 S.Y.	"	3000	.005		1.42	.27	.27	1.96	2.27
0400	Under 1,000 S.Y.	B-1	1050	.023		1.42	.95		2.37	3
0600	Non-skid pavement renewal, over 10,000 S.Y.	B-45	5000	.003		1.38	.16	.16	1.70	1.95
0620	1,000 to 10,000 S.Y.	"	3000	.005		1.38	.27	.27	1.92	2.23
0700	Under 1,000 S.Y.	B-1	1050	.023		1.38	.95		2.33	2.96
0800	Prepare and clean surface for above	A-2	8545	.003			.12	.02	.14	.21
1000	Hand seal asphalt curbing	B-1	4420	.005	L.F.	.61	.23		.84	1.01
1900	Asphalt surface treatment, single course, small area									
1901	0.30 gal./S.Y. asphalt material, 20 lb./S.Y. aggregate	B-91	5000	.013	S.Y.	1.34	.63	.44	2.41	2.91
1910	Roadway or large area		10000	.006		1.23	.31	.22	1.76	2.07
1950	Asphalt surface treatment, dbl. course for small area		3000	.021		3.03	1.05	.74	4.82	5.70
1960	Roadway or large area		6000	.011		2.73	.52	.37	3.62	4.20
1980	Asphalt surface treatment, single course, for shoulders		7500	.009		1.48	.42	.30	2.20	2.59

32 06 Schedules for Exterior Improvements

32 06 10 – Schedules for Bases, Ballasts, and Paving

32 06 10.10 Sidewalks, Driveways and Patios

0010	**SIDEWALKS, DRIVEWAYS AND PATIOS** No base									
0020	Asphaltic concrete, 2" thick	B-37	720	.067	S.Y.	6.80	2.88	.21	9.89	12.05
0100	2-1/2" thick	"	660	.073	"	8.60	3.14	.23	11.97	14.45
0300	Concrete, 3,000 psi, CIP, 6 x 6 - W1.4 x W1.4 mesh,									
0310	broomed finish, no base, 4" thick	B-24	600	.040	S.F.	2.22	1.89		4.11	5.25
0350	5" thick		545	.044		2.75	2.08		4.83	6.15
0400	6" thick		510	.047		3.20	2.22		5.42	6.85
0450	For bank run gravel base, 4" thick, add	B-18	2500	.010		.43	.40	.02	.85	1.11
0520	8" thick, add	"	1600	.015		.88	.63	.03	1.54	1.94
0550	Exposed aggregate finish, add to above, minimum	B-24	1875	.013		.07	.60		.67	.98
0600	Maximum	"	455	.053		.22	2.49		2.71	3.99
1000	Crushed stone, 1" thick, white marble	2 Clab	1700	.009		.49	.39		.88	1.12
1050	Bluestone	"	1700	.009		.20	.39		.59	.80
1700	Redwood, prefabricated, 4' x 4' sections	2 Carp	316	.051		4.84	2.62		7.46	9.25
1750	Redwood planks, 1" thick, on sleepers	"	240	.067		4.84	3.44		8.28	10.50
2250	Stone dust, 4" thick	B-62	900	.027	S.Y.	4.90	1.19	.19	6.28	7.40

32 06 10.20 Steps

0010	**STEPS**									
0011	Incl. excav., borrow & concrete base as required									
0100	Brick steps	B-24	35	.686	LF Riser	17.20	32.50		49.70	67.50
0200	Railroad ties	2 Clab	25	.640		3.59	26.50		30.09	43.50

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32 06 Schedules for Exterior Improvements

32 06 10 – Schedules for Bases, Ballasts, and Paving

32 06 10.20 Steps		Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0300	Bluestone treads, 12" x 2" or 12" x 1-1/2"	B-24	30	.800	LF Riser	43	38		81	104
0500	Concrete, cast in place, see Section 03 30 53.40									
0600	Precast concrete, see Section 03 41 23.50									
4025	Steel edge strips, incl. stakes, 1/4" x 5"	B-1	390	.062	L.F.	4.88	2.57		7.45	9.25
4050	Edging, landscape timber or railroad ties, 6" x 8"	2 Carp	170	.094	"	2.32	4.86		7.18	9.90

32 11 Base Courses

32 11 23 – Aggregate Base Courses

32 11 23.23 Base Course Drainage Layers

0010	**BASE COURSE DRAINAGE LAYERS**									
0011	For roadways and large areas									
0050	Crushed 3/4" stone base, compacted, 3" deep	B-36C	5200	.008	S.Y.	2.67	.39	.75	3.81	4.34
0100	6" deep		5000	.008		5.35	.41	.78	6.54	7.30
0200	9" deep		4600	.009		8	.44	.84	9.28	10.40
0300	12" deep		4200	.010		10.70	.49	.92	12.11	13.50
0301	Crushed 1-1/2" stone base, compacted to 4" deep	B-36B	6000	.011		7.20	.52	.76	8.48	9.55
0302	6" deep		5400	.012		10.80	.58	.84	12.22	13.70
0303	8" deep		4500	.014		14.40	.70	1.01	16.11	18
0304	12" deep		3800	.017		21.50	.83	1.19	23.52	26.50
0350	Bank run gravel, spread and compacted									
0370	6" deep	B-32	6000	.005	S.Y.	3.63	.28	.36	4.27	4.80
0390	9" deep		4900	.007		5.45	.34	.44	6.23	7
0400	12" deep		4200	.008		7.25	.39	.52	8.16	9.15
6000	Stabilization fabric, polypropylene, 6 oz./S.Y.	B-6	10000	.002		.76	.11	.03	.90	1.04
6900	For small and irregular areas, add						50%	50%		
7000	Prepare and roll sub-base, small areas to 2,500 S.Y.	B-32A	1500	.016	S.Y.		.81	.87	1.68	2.17
8000	Large areas over 2,500 S.Y.	"	3500	.007			.35	.37	.72	.93
8050	For roadways	B-32	4000	.008			.41	.55	.96	1.22

32 11 26 – Asphaltic Base Courses

32 11 26.19 Bituminous-Stabilized Base Courses

0010	**BITUMINOUS-STABILIZED BASE COURSES**									
0020	And large paved areas									
0700	Liquid application to gravel base, asphalt emulsion	B-45	6000	.003	Gal.	4.56	.14	.14	4.84	5.35
0800	Prime and seal, cut back asphalt		6000	.003	"	5.40	.14	.14	5.68	6.25
1000	Macadam penetration crushed stone, 2 gal./S.Y., 4" thick		6000	.003	S.Y.	9.10	.14	.14	9.38	10.40
1100	6" thick, 3 gal./S.Y.		4000	.004		13.70	.20	.20	14.10	15.60
1200	8" thick, 4 gal./S.Y.		3000	.005		18.25	.27	.27	18.79	20.50
8900	For small and irregular areas, add						50%	50%		

	32 12 16.13 Plant-Mix Asphalt Paving	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0010	**PLANT-MIX ASPHALT PAVING**									
0020	And large paved areas with no hauling included									
0025	See Section 31 23 23.20 for hauling costs									
0080	Binder course, 1-1/2" thick	B-25	7725	.011	S.Y.	5.25	.51	.34	6.10	6.90
0120	2" thick		6345	.014		6.95	.63	.42	8	9.05
0130	2-1/2" thick		5620	.016		8.70	.71	.47	9.88	11.20
0160	3" thick		4905	.018		10.45	.81	.54	11.80	13.30
0170	3-1/2" thick		4520	.019		12.20	.88	.59	13.67	15.35
0200	4" thick		4140	.021		13.95	.96	.64	15.55	17.50
0300	Wearing course, 1" thick	B-25B	10575	.009		3.46	.42	.27	4.15	4.73
0340	1-1/2" thick		7725	.012		5.80	.57	.37	6.74	7.65
0380	2" thick		6345	.015		7.80	.69	.45	8.94	10.15
0420	2-1/2" thick		5480	.018		9.65	.80	.53	10.98	12.40
0460	3" thick		4900	.020		11.50	.90	.59	12.99	14.60
0470	3-1/2" thick		4520	.021		13.45	.97	.64	15.06	16.95
0480	4" thick		4140	.023		15.40	1.06	.70	17.16	19.30
0500	Open graded friction course	B-25C	5000	.010		2.47	.44	.46	3.37	3.90
0800	Alternate method of figuring paving costs									
0810	Binder course, 1-1/2" thick	B-25	630	.140	Ton	64	6.30	4.20	74.50	84.50
0811	2" thick		690	.128		64	5.75	3.84	73.59	83.50
0812	3" thick		800	.110		64	4.96	3.31	72.27	81.50
0813	4" thick		900	.098		64	4.41	2.94	71.35	80.50
0850	Wearing course, 1" thick	B-25B	575	.167		75.50	7.65	5	88.15	100
0851	1-1/2" thick		630	.152		75.50	7	4.57	87.07	98.50
0852	2" thick		690	.139		75.50	6.40	4.17	86.07	97
0853	2-1/2" thick		765	.125		75.50	5.75	3.76	85.01	96
0854	3" thick		800	.120		75.50	5.50	3.60	84.60	95.50
1000	Pavement replacement over trench, 2" thick	B-37	90	.533	S.Y.	7.20	23	1.70	31.90	45
1050	4" thick		70	.686		14.25	29.50	2.18	45.93	62.50
1080	6" thick		55	.873		22.50	37.50	2.78	62.78	85
	32 12 16.14 Asphaltic Concrete Paving									
0011	**ASPHALTIC CONCRETE PAVING**, parking lots & driveways									
0015	No asphalt hauling included									
0018	Use 6.05 C.Y. per inch per M.S.F. for hauling									
0020	6" stone base, 2" binder course, 1" topping	B-25C	9000	.005	S.F.	2.20	.25	.26	2.71	3.07
0025	2" binder course, 2" topping		9000	.005		2.65	.25	.26	3.16	3.57
0030	3" binder course, 2" topping		9000	.005		3.05	.25	.26	3.56	4
0035	4" binder course, 2" topping		9000	.005		3.43	.25	.26	3.94	4.42
0040	1-1/2" binder course, 1" topping		9000	.005		2.01	.25	.26	2.52	2.86
0042	3" binder course, 1" topping		9000	.005		2.59	.25	.26	3.10	3.50
0045	3" binder course, 3" topping		9000	.005		3.50	.25	.26	4.01	4.50
0050	4" binder course, 3" topping		9000	.005		3.89	.25	.26	4.40	4.93
0055	4" binder course, 4" topping		9000	.005		4.34	.25	.26	4.85	5.40
0300	Binder course, 1-1/2" thick		35000	.001		.58	.06	.07	.71	.81
0400	2" thick		25000	.002		.75	.09	.09	.93	1.06
0500	3" thick		15000	.003		1.17	.15	.15	1.47	1.67
0600	4" thick		10800	.004		1.53	.20	.21	1.94	2.22
0800	Sand finish course, 3/4" thick		41000	.001		.31	.05	.06	.42	.48
0900	1" thick		34000	.001		.39	.07	.07	.53	.60
1000	Fill pot holes, hot mix, 2" thick	B-16	4200	.008		.81	.33	.14	1.28	1.54
1100	4" thick		3500	.009		1.19	.39	.16	1.74	2.07
1120	6" thick		3100	.010		1.59	.44	.18	2.21	2.62

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32 14 Unit Paving

32 14 40 – Stone Paving

32 14 40.10 Stone Pavers	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0010 **STONE PAVERS**									
1100 Flagging, bluestone, irregular, 1" thick,	D-1	81	.198	S.F.	10.50	9.05		19.55	25.50
1150 Snapped random rectangular, 1" thick		92	.174		15.95	7.95		23.90	29.50
1200 1-1/2" thick		85	.188		19.15	8.60		27.75	34
1250 2" thick		83	.193		22.50	8.80		31.30	38
1300 Slate, natural cleft, irregular, 3/4" thick		92	.174		9.65	7.95		17.60	23
1350 Random rectangular, gauged, 1/2" thick		105	.152		21	6.95		27.95	33.50
1400 Random rectangular, butt joint, gauged, 1/4" thick		150	.107		22.50	4.88		27.38	32
1500 For interior setting, add								25%	25%
1550 Granite blocks, 3-1/2" x 3-1/2" x 3-1/2"	D-1	92	.174	S.F.	20.50	7.95		28.45	34.50
1600 4" to 12" long, 3" to 5" wide, 3" to 5" thick		98	.163		16.95	7.45		24.40	30
1650 6" to 15" long, 3" to 6" wide, 3" to 5" thick		105	.152		9.05	6.95		16	20.50

32 16 Curbs, Gutters, Sidewalks, and Driveways

32 16 13 – Curbs and Gutters

32 16 13.13 Cast-in-Place Concrete Curbs and Gutters

0010 **CAST-IN-PLACE CONCRETE CURBS AND GUTTERS**									
0290 Forms only, no concrete									
0300 Concrete, wood forms, 6" x 18", straight	C-2	500	.096	L.F.	3	4.82		7.82	10.60
0400 6" x 18", radius	"	200	.240	"	3.13	12.05		15.18	21.50
0402 Forms and concrete complete									
0404 Concrete, wood forms, 6" x 18", straight & concrete	C-2A	500	.096	L.F.	6.45	4.78		11.23	14.30
0406 6" x 18", radius		200	.240		6.60	11.95		18.55	25.50
0410 Steel forms, 6" x 18", straight		700	.069		5.45	3.41		8.86	11.10
0411 6" x 18", radius		400	.120		5.55	5.95		11.50	15.15
0415 Machine formed, 6" x 18", straight	B-69A	2000	.024		3.75	1.08	.60	5.43	6.40
0416 6" x 18", radius	"	900	.053		3.77	2.40	1.33	7.50	9.20
0421 Curb and gutter, straight									
0422 with 6" high curb and 6" thick gutter, wood forms									
0430 24" wide, 0.055 C.Y./L.F.	C-2A	375	.128	L.F.	16.50	6.35		22.85	28
0435 30" wide, 0.066 C.Y./L.F.		340	.141		18.25	7.05		25.30	30.50
0440 Steel forms, 24" wide, straight		700	.069		7.40	3.41		10.81	13.30
0441 Radius		500	.096		7.35	4.78		12.13	15.30
0442 30" wide, straight		700	.069		8.60	3.41		12.01	14.60
0443 Radius		500	.096		8.45	4.78		13.23	16.50
0445 Machine formed, 24" wide, straight	B-69A	2000	.024		6.90	1.08	.60	8.58	9.90
0446 Radius		900	.053		6.90	2.40	1.33	10.63	12.65
0447 30" wide, straight		2000	.024		8.05	1.08	.60	9.73	11.15
0448 Radius		900	.053		8.05	2.40	1.33	11.78	13.90

32 16 13.23 Precast Concrete Curbs and Gutters

0010 **PRECAST CONCRETE CURBS AND GUTTERS**									
0550 Precast, 6" x 18", straight	B-29	700	.080	L.F.	9.35	3.59	1.23	14.17	17
0600 6" x 18", radius	"	325	.172	"	10.40	7.75	2.65	20.80	26

32 16 13.33 Asphalt Curbs

0010 **ASPHALT CURBS**									
0012 Curbs, asphaltic, machine formed, 8" wide, 6" high, 40 L.F./ton	B-27	1000	.032	L.F.	1.64	1.33	.33	3.30	4.17
0100 8" wide, 8" high, 30 L.F./ton		900	.036		2.19	1.48	.36	4.03	5.05
0150 Asphaltic berm, 12" W, 3" to 6" H, 35 L.F./ton, before pavement		700	.046		.04	1.90	.46	2.40	3.43
0200 12" W, 1-1/2" to 4" H, 60 L.F./ton, laid with pavement	B-2	1050	.038		.02	1.58		1.60	2.42

32 16 Curbs, Gutters, Sidewalks, and Driveways

32 16 13 – Curbs and Gutters

32 16 13.43 Stone Curbs		Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0010	**STONE CURBS**									
1000	Granite, split face, straight, 5" x 16"	D-13	275	.175	L.F.	14.95	8.55	1.35	24.85	31
1100	6" x 18"	"	250	.192		19.65	9.40	1.49	30.54	37.50
1300	Radius curbing, 6" x 18", over 10' radius	B-29	260	.215		24	9.65	3.32	36.97	44.50
1400	Corners, 2' radius	"	80	.700	Ea.	81	31.50	10.80	123.30	148
1600	Edging, 4-1/2" x 12", straight	D-13	300	.160	L.F.	7.50	7.85	1.24	16.59	21.50
1800	Curb inlets (guttermouth) straight	B-29	41	1.366	Ea.	180	61	21	262	315
2000	Indian granite (Belgian block)									
2100	Jumbo, 10-1/2" x 7-1/2" x 4", grey	D-1	150	.107	L.F.	9.80	4.88		14.68	18.25
2150	Pink		150	.107		8.50	4.88		13.38	16.80
2200	Regular, 9" x 4-1/2" x 4-1/2", grey		160	.100		4.38	4.57		8.95	11.80
2250	Pink		160	.100		5.85	4.57		10.42	13.40
2300	Cubes, 4" x 4" x 4", grey		175	.091		3.62	4.18		7.80	10.40
2350	Pink		175	.091		3.79	4.18		7.97	10.55
2400	6" x 6" x 6", pink		155	.103		12.90	4.72		17.62	21.50
2500	Alternate pricing method for Indian granite									
2550	Jumbo, 10-1/2" x 7-1/2" x 4" (30 lb.), grey				Ton	560			560	615
2600	Pink					495			495	545
2650	Regular, 9" x 4-1/2" x 4-1/2" (20 lb.), grey					310			310	340
2700	Pink					410			410	450
2750	Cubes, 4" x 4" x 4" (5 lb.), grey					440			440	480
2800	Pink					485			485	535
2850	6" x 6" x 6" (25 lb.), pink					505			505	555
2900	For pallets, add					22			22	24

32 17 Paving Specialties

32 17 13 – Parking Bumpers

32 17 13.13 Metal Parking Bumpers

0010	**METAL PARKING BUMPERS**									
0015	Bumper rails for garages, 12 ga. rail, 6" wide, with steel									
0020	posts 12'-6" OC, minimum	E-4	190	.168	L.F.	20.50	9.50	.50	30.50	39
0030	Average		165	.194		26	10.95	.58	37.53	46.50
0100	Maximum		140	.229		31	12.90	.68	44.58	55.50
0300	12" channel rail, minimum		160	.200		26	11.30	.60	37.90	47
0400	Maximum		120	.267		39	15.05	.80	54.85	67.50
1300	Pipe bollards, conc. filled/paint, 8' L x 4' D hole, 6" diam.	B-6	20	1.200	Ea.	635	53.50	16	704.50	800
1400	8" diam.		15	1.600		725	71.50	21.50	818	930
1500	12" diam.		12	2		995	89	26.50	1,110.50	1,275
2030	Folding with individual padlocks	B-2	50	.800		211	33		244	282
8000	Parking lot control, see Section 11 12 13.10									
8900	Security bollards, SS, lighted, hyd., incl. controls, group of 3	L-7	.06	509	Ea.	41,200	25,400		66,600	83,500
8910	Group of 5	"	.04	683	"	69,000	34,000		103,000	127,500

32 17 13.16 Plastic Parking Bumpers

0010	**PLASTIC PARKING BUMPERS**									
1200	Thermoplastic, 6" x 10" x 6'-0"	B-2	120	.333	Ea.	61.50	13.80		75.30	88.50

32 17 13.19 Precast Concrete Parking Bumpers

0010	**PRECAST CONCRETE PARKING BUMPERS**									
1000	Wheel stops, precast concrete incl. dowels, 6" x 10" x 6'-0"	B-2	120	.333	Ea.	56.50	13.80		70.30	83
1100	8" x 13" x 6'-0"	"	120	.333	"	66	13.80		79.80	93.50

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32 17 Paving Specialties

32 17 13 – Parking Bumpers

	32 17 13.26 Wood Parking Bumpers	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
0010	**WOOD PARKING BUMPERS**									
0020	Parking barriers, timber w/saddles, treated type									
0100	4" x 4" for cars	B-2	520	.077	L.F.	3.15	3.19		6.34	8.30
0200	6" x 6" for trucks		520	.077	"	6.60	3.19		9.79	12.05
0600	Flexible fixed stanchion, 2' high, 3" diameter		100	.400	Ea.	43	16.60		59.60	72.50

32 17 23 – Pavement Markings

32 17 23.13 Painted Pavement Markings

0010	**PAINTED PAVEMENT MARKINGS**									
0020	Acrylic waterborne, white or yellow, 4" wide, less than 3,000 L.F.	B-78	20000	.002	L.F.	.10	.10	.03	.23	.29
0200	6" wide, less than 3,000 L.F.		11000	.004		.15	.18	.05	.38	.50
0500	8" wide, less than 3,000 L.F.		10000	.005		.20	.20	.05	.45	.59
0600	12" wide, less than 3,000 L.F.		4000	.012		.30	.51	.13	.94	1.23
0620	Arrows or gore lines		2300	.021	S.F.	.21	.88	.22	1.31	1.80
0640	Temporary paint, white or yellow, less than 3,000 L.F.		15000	.003	L.F.	.12	.13	.03	.28	.37
0660	Removal	1 Clab	300	.027			1.09		1.09	1.66
0680	Temporary tape	2 Clab	1500	.011		.52	.44		.96	1.23
0710	Thermoplastic, white or yellow, 4" wide, less than 6,000 L.F.	B-79	15000	.003		.36	.11	.08	.55	.66
0730	6" wide, less than 6,000 L.F.		14000	.003		.54	.12	.09	.75	.87
0740	8" wide, less than 6,000 L.F.		12000	.003		.72	.14	.10	.96	1.11
0750	12" wide, less than 6,000 L.F.		6000	.007		1.06	.28	.21	1.55	1.83
0760	Arrows		660	.061	S.F.	.59	2.57	1.86	5.02	6.60
0770	Gore lines		2500	.016		.59	.68	.49	1.76	2.21
0780	Letters		660	.061		.59	2.57	1.86	5.02	6.60
1000	Airport painted markings									
1050	Traffic safety flashing truck for airport painting	A-2B	1	8	Day		365	195	560	765
1100	Painting, white or yellow, taxiway markings	B-78	4000	.012	S.F.	.36	.51	.13	1	1.30
1110	with 12 lb. beads per 100 S.F.		4000	.012		.44	.51	.13	1.08	1.38
1200	Runway markings		3500	.014		.36	.58	.15	1.09	1.43
1210	with 12 lb. beads per 100 S.F.		3500	.014		.44	.58	.15	1.17	1.51
1300	Pavement location or direction signs		2500	.019		.36	.81	.20	1.37	1.84
1310	with 12 lb. beads per 100 S.F.		2500	.019		.44	.81	.20	1.45	1.92
1350	Mobilization airport pavement painting		4	12	Ea.		505	127	632	905
1400	Paint markings or pavement signs removal daytime	B-78B	400	.045	S.F.		1.90	.87	2.77	3.82
1500	Removal nighttime		335	.054	"		2.27	1.04	3.31	4.57
1600	Mobilization pavement paint removal		4	4.500	Ea.		190	87	277	385

32 17 23.14 Pavement Parking Markings

0010	**PAVEMENT PARKING MARKINGS**									
0790	Layout of pavement marking	A-2	25000	.001	L.F.		.04	.01	.05	.07
0800	Lines on pvmt., parking stall, paint, white, 4" wide	B-78B	400	.045	Stall	4.85	1.90	.87	7.62	9.15
0825	Parking stall, small quantities	2 Pord	80	.200		9.70	8.65		18.35	23.50
0830	Lines on pvmt., parking stall, thermoplastic, white, 4" wide	B-79	300	.133		18.50	5.65	4.10	28.25	33.50
1000	Street letters and numbers	B-78B	1600	.011	S.F.	.74	.48	.22	1.44	1.77

32 17 26 – Tactile Warning Surfacing

32 17 26.10 Tactile Warning Surfacing

0010	**TACTILE WARNING SURFACING**									
0100	Tactile warning tiles S.F.	2 Clab	400	.040	S.F.	17.95	1.64		19.59	22

32 91 Planting Preparation

32 91 13 – Soil Preparation

	32 91 13.26 Planting Beds	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
3000	Pile sod, skid steer loader	B-62	2800	.009	S.Y.		.38	.06	.44	.65
3100	By hand	2 Clab	400	.040			1.64		1.64	2.48
4000	Remove sod, F.E. loader	B-10S	2000	.006			.30	.18	.48	.65
4100	Sod cutter	B-12K	3200	.005			.25	.37	.62	.78
4200	By hand	2 Clab	240	.067			2.74		2.74	4.14

32 91 19 – Landscape Grading

32 91 19.13 Topsoil Placement and Grading

0010	**TOPSOIL PLACEMENT AND GRADING**									
0400	Spread from pile to rough finish grade, F.E. loader, 1-1/2 C.Y.	B-10S	200	.060	C.Y.		3.03	1.76	4.79	6.50
0500	Up to 200' radius, by hand	1 Clab	14	.571			23.50		23.50	35.50
0600	Top dress by hand, 1 C.Y. for 600 S.F.	"	11.50	.696		28	28.50		56.50	74
0700	Furnish and place, truck dumped, screened, 4" deep	B-10S	1300	.009	S.Y.	3.49	.47	.27	4.23	4.84
0800	6" deep	"	820	.015	"	4.47	.74	.43	5.64	6.50

32 92 Turf and Grasses

32 92 19 – Seeding

32 92 19.13 Mechanical Seeding

0010	**MECHANICAL SEEDING**									
0020	Mechanical seeding, 215 lb./acre	B-66	1.50	5.333	Acre	575	275	146	996	1,200
0100	44 lb./M.S.Y.	"	2500	.003	S.Y.	.20	.17	.09	.46	.57
0101	44 lb./M.S.Y.	1 Clab	13950	.001	S.F.	.02	.02		.04	.06
0300	Fine grading and seeding incl. lime, fertilizer & seed,									
0310	with equipment	B-14	1000	.048	S.Y.	.46	2.07	.32	2.85	3.99
0400	Fertilizer hand push spreader, 35 lb./M.S.F.	1 Clab	200	.040	M.S.F.	9.90	1.64		11.54	13.40
0600	Limestone hand push spreader, 50 lb./M.S.F.		180	.044		4.87	1.82		6.69	8.10
0800	Grass seed hand push spreader, 4.5 lb./M.S.F.		180	.044		22	1.82		23.82	27.50
1000	Hydro or air seeding for large areas, incl. seed and fertilizer	B-81	8900	.003	S.Y.	.52	.13	.07	.72	.83
1100	With wood fiber mulch added	"	8900	.003	"	2.03	.13	.07	2.23	2.49
1300	Seed only, over 100 lb., field seed, minimum				Lb.	1.92			1.92	2.11
1400	Maximum					1.83			1.83	2.01
1500	Lawn seed, minimum					1.45			1.45	1.60
1600	Maximum					2.55			2.55	2.81
1800	Aerial operations, seeding only, field seed	B-58	50	.480	Acre	625	21.50	64.50	711	790
1900	Lawn seed		50	.480		470	21.50	64.50	556	625
2100	Seed and liquid fertilizer, field seed		50	.480		700	21.50	64.50	786	875
2200	Lawn seed		50	.480		545	21.50	64.50	631	705

32 92 23 – Sodding

32 92 23.10 Sodding Systems

0010	**SODDING SYSTEMS**									
0020	Sodding, 1" deep, bluegrass sod, on level ground, over 8 M.S.F.	B-63	22	1.818	M.S.F.	198	78.50	7.95	284.45	345
0200	4 M.S.F.		17	2.353		249	102	10.25	361.25	440
0300	1,000 S.F.		13.50	2.963		325	128	12.90	465.90	560
0500	Sloped ground, over 8 M.S.F.		6	6.667		198	288	29	515	685
0600	4 M.S.F.		5	8		249	345	35	629	835
0700	1,000 S.F.		4	10		325	430	43.50	798.50	1,050
1000	Bent grass sod, on level ground, over 6 M.S.F.		20	2		262	86.50	8.70	357.20	430
1100	3 M.S.F.		18	2.222		276	96	9.70	381.70	460
1200	Sodding 1,000 S.F. or less		14	2.857		305	123	12.45	440.45	535
1500	Sloped ground, over 6 M.S.F.		15	2.667		262	115	11.65	388.65	475
1600	3 M.S.F.		13.50	2.963		276	128	12.90	416.90	510

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32 92 Turf and Grasses

32 92 23 – Sodding

	32 92 23.10 Sodding Systems	Crew	Daily Output	Labor-Hours	Unit	2019 Bare Costs Material	Labor	Equipment	Total	Total Incl O&P
1700	1,000 S.F.	B-63	12	3.333	M.S.F.	305	144	14.55	463.55	570

32 93 Plants

32 93 10 – General Planting Costs

32 93 10.12 Travel

0010	**TRAVEL** add to all nursery items									
0015	10 to 20 miles one way, add				All				5%	5%
0100	30 to 50 miles one way, add				"				10%	10%

32 93 13 – Ground Covers

32 93 13.10 Ground Cover Plants

0010	**GROUND COVER PLANTS**									
0012	Plants, pachysandra, in prepared beds	B-1	15	1.600	C	84	67		151	194
0200	Vinca minor, 1 yr., bare root, in prepared beds		12	2	"	72	83.50		155.50	205
0600	Stone chips, in 50 lb. bags, Georgia marble		520	.046	Bag	4.79	1.93		6.72	8.15
0700	Onyx gemstone		260	.092		16.25	3.85		20.10	23.50
0800	Quartz		260	.092		16.85	3.85		20.70	24.50
0900	Pea gravel, truckload lots		28	.857	Ton	15.75	36		51.75	71.50

32 93 33 – Shrubs

32 93 33.10 Shrubs and Trees

0010	**SHRUBS AND TREES**									
0011	Evergreen, in prepared beds, B&B									
0100	Arborvitae pyramidal, 4'-5'	B-17	30	1.067	Ea.	106	48	22	176	213
0150	Globe, 12"-15"	B-1	96	.250		26.50	10.45		36.95	45.50
0300	Cedar, blue, 8'-10'	B-17	18	1.778		243	80.50	36.50	360	430
0500	Hemlock, Canadian, 2-1/2'-3'	B-1	36	.667		33	28		61	78.50
0550	Holly, Savannah, 8'-10' H		9.68	2.479		310	103		413	495
0600	Juniper, andorra, 18"-24"		80	.300		52.50	12.50		65	77
0620	Wiltoni, 15"-18"		80	.300		27	12.50		39.50	49
0640	Skyrocket, 4-1/2'-5'	B-17	55	.582		113	26.50	12	151.50	177
0660	Blue pfitzer, 2'-2-1/2'	B-1	44	.545		40	23		63	78.50
0680	Ketleerie, 2-1/2'-3'		50	.480		57.50	20		77.50	94
0700	Pine, black, 2-1/2'-3'		50	.480		64	20		84	101
0720	Mugo, 18"-24"		60	.400		56.50	16.70		73.20	87.50
0740	White, 4'-5'	B-17	75	.427		54.50	19.30	8.80	82.60	98.50
0800	Spruce, blue, 18"-24"	B-1	60	.400		70.50	16.70		87.20	103
0840	Norway, 4'-5'	B-17	75	.427		89	19.30	8.80	117.10	137
0900	Yew, denisforma, 12"-15"	B-1	60	.400		37.50	16.70		54.20	66.50
1000	Capitata, 18"-24"		30	.800		35	33.50		68.50	89
1100	Hicksi, 2'-2-1/2'		30	.800		112	33.50		145.50	174

32 93 33.20 Shrubs

0010	**SHRUBS**									
0011	Broadleaf Evergreen, planted in prepared beds									
0100	Andromeda, 15"-18", cont	B-1	96	.250	Ea.	34.50	10.45		44.95	54
0200	Azalea, 15"-18", cont		96	.250		31	10.45		41.45	50
0300	Barberry, 9"-12", cont		130	.185		19.25	7.70		26.95	32.50
0400	Boxwood, 15"-18", B&B		96	.250		46	10.45		56.45	67
0500	Euonymus, emerald gaiety, 12"-15", cont		115	.209		25.50	8.70		34.20	41
0600	Holly, 15"-18", B&B		96	.250		41	10.45		51.45	61
0900	Mount laurel, 18"-24", B&B		80	.300		75.50	12.50		88	102
1000	Paxistema, 9"-12" H		130	.185		22.50	7.70		30.20	36

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